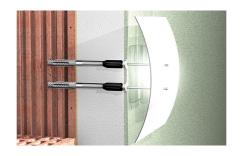


The thermally separated stand-off installation in external thermal insulation composite systems (ETICS)







BUILDING MATERIALS

- Concrete
- Vertically perforated brick
- Hollow blocks made from lightweight concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Building brick
- Aerated concrete
- Wood

ADVANTAGES

- The stand-off installation allows for the fixture to be adjusted to the exact position required, whereby pressure marks and damage to the ETICS are avoided.
- The plastic cone creates a thermal barrier between the fixture and the inner fixture, and offers an energyoptimised fixing.
- The glass-fibre-reinforced plastic cone cuts its own way through the ETICS with a positive fit, and allows for a simple and fast installation without the need for any special tools.
- Combining Thermax 8 and 10 with the universal plug UX provides a secure anchoring in the substrate.
- Without UX plug direct mounting in wood substrate is possible after predrilling.

APPLICATIONS

For the thermally separated fixing of:

- Signs
- Lighting
- Letter boxes
- Motion detectors
- Downpipes
- Lightning rods
- Blind guide rails

FUNCTIONING

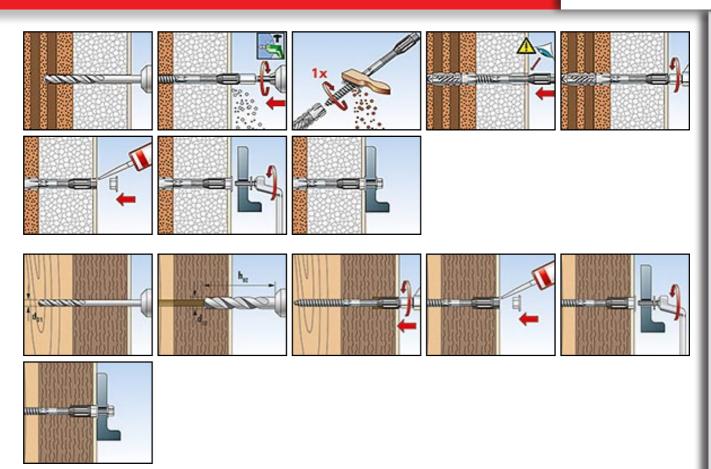
- The Thermax 8 and 10 systems are suitable for pre-positioned installation.
- The self-tapping, glass-fibrereinforced cone cuts its own way through the plaster into the insulation during installation.
- The anti-cold cone uses a thermal barrier to minimise heat losses.
- Installation without any special tools.
- For use in wood without plug, the wood (footnote below load table) as well as the plaster has to be predrilled:

Thermax 8: d02 = 14 mm, h02 = 50 mm; Thermax 10:

d02 = 18 mm, h02 = 50 mm

The extensive range features fitting options with metric screws
(M6/8/10), sheet screws (6.3 mm), chipboard screws (6.0 mm) or chipboard screws (4.5 - 5.5 mm) when using an SX 5 expansion plug.

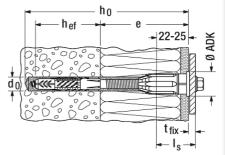




TECHNICAL DATA



Stand-off installation Thermax 8 / 10



		Drill hole diameter	Drill hole depth	Usable length	Anchorage depth
		dn	h _U	е	h _{ef}
Article name	ArtNo.	[mm]	[mm]	[mm]	[mm]
Thermax 8/60 M6	045685	10	120	45 - 60	60
Thermax 8/80 M6	045686	10	140	60 - 80	60
Thermax 8/100 M6	045687	10	160	80 - 100	60
Thermax 8/120 M6	045688	10	180	100 - 120	60
Thermax 8/140 M6	045689	10	200	120 - 140	60
Thermax 8/160 M6	045690	10	220	140 - 160	60
Thermax 8/180 M6	045691	10	240	160 - 180	60
Thermax 10/100 M6	045692	12	160	80 - 100	70
Thermax 10/120 M6	045693	12	180	100 - 120	70
Thermax 10/140 M6	045694	12	200	120 - 140	70
Thermax 10/160 M6	045695	12	220	140 - 160	70
Thermax 10/180 M6	045696	12	240	160 - 180	70
Thermax 10/200 M6	512605	12	260	180 - 200	70
Thermax 10/220 M6	514250	12	280	200 - 220	70
Thermax 10/240 M6	514251	12	300	220 - 240	70
Thermax 10/100 M8	045697	12	160	80 - 100	70
Thermax 10/120 M8	045698	12	180	100 - 120	70
Thermax 10/140 M8	045699	12	200	120 - 140	70
Thermax 10/160 M8	045700	12	220	140 - 160	70
Thermax 10/180 M8	514252	12	240	160 - 180	70
Thermax 10/200 M8	514253	12	260	180 - 200	70

Stand-off installation Thermax 8 / 10



		Drill hole diameter	Drill hole depth	Usable length	Anchorage depth
		d _O	h _n	е	h _{ef}
Article name	ArtNo.	[mm]	[mm]	[mm]	[mm]
Thermax 10/220 M8	514254	12	280	200 - 220	70
Thermax 10/240 M8	514255	12	300	220 - 240	70
Thermax 10/100 M10	045702	12	160	80 - 100	70
Thermax 10/120 M10	045703	12	180	100 - 120	70
Thermax 10/140 M10	045704	12	200	120 - 140	70
Thermax 10/160 M10	045705	12	220	140 - 160	70
Thermax 10/180 M10	514256	12	240	160 - 180	70
Thermax 10/200 M10	514257	12	260	180 - 200	70
Thermax 10/220 M10	514258	12	280	200 - 220	70
Thermax 10/240 M10	514259	12	300	220 - 240	70

Stand-off installation Thermax 8 / 10



LOADS

Stand-off installation Thermax 8 and 10

Highest recommended loads¹⁾ of a single anchor in concrete and masonry.

Туре			Thermax 8	Thermax 10				
Supplied type of plug for the anchorage in the base material			UX 10 x 60	UX 12 x 70				
Recommended tensile loads in the respective base material N _{rec} ²⁾								
Concrete ^{3) 4)}	≥ C20/25	[kN]	1,00	1,00				
Solid brick ^{3) 4)}	≥ Mz 12	[kN]	0,50	0,70				
Perforated sand-lime brick ^{3) 4)}	≥ KSL 12	[kN]	0,60	0,80				
Vertically perforated brick ⁴⁾	≥ HIz 12	[kN]	0,20	0,30				
Aerated concrete ^{3) 4)}	≥ PB 4	[kN]	0,40	0,60				
Recommended shear load V _{rec} , valid für all above mentioned base materials for the stated insulation thickness								
External Thermal Insulation Composite System ⁵⁾	≤ 240 mm	[kN]	0,15	0,20				

¹⁾ Required safety factors are considered.

²⁾ The drilling method is to be adapted to the building material used. As different joint qualities are possible, the given values only apply for installation in the brick.

³⁾ The given recommended tensile loads apply for fastenings with metric screws. When using chipboard screws with diameter 6,0 mm they have to be reduced to 0,35 kN.

⁴⁾ The given recommended tensile loads apply for fastenings with metric screws. When using a SX 5-plug chipboard screws with diameter 4,5 - 5,5 mm they have to be reduced to 0,1 kN.

 $^{^{5)}}$ Values are valid for an ETICS made from PS- respectively PU-rigid foam panels. Thickness of rendering minimum 6 mm.